

# Attachment A. Avian Transect Field Data Sheet

This attachment contains the field data sheets used to record avian occurrence as well as information required to develop density estimates

[illegible]

## Attachment B. Species Occurrence Records Derived From The Natural Diversity Database

Historic records in the Natural Diversity Database were used to determine which State and federally listed species could occur within the proposed project areas

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Natural Diversity Data Base

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ELANUS LEUCURUS (NESTING)

WHITE-TAILED KITE

Element Code: ABNKC06010

——List Status——

Federal: None

State: None

——NDDB Element Ranks——

Global: G5

State: S3

——Other Lists——

CDFG Status:

——Habitat Associations——

General: LOW ROLLING FOOTHILLS/VALLEY MARGINS WITH SCATTERED OAKS AND RIVER BOTTOMLANDS OR MARSHES ADJACENT TO DECIDUOUS WOODLAND

Micro: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Occurrence No. 34      Map Index: 24854

——Dates Last Seen——

Lat/Long: 39°14'18" / 122°17'24"

Township: 16N

Occ Rank: Unknown

Element: 1985-04-16

UTM: Zone-10 N4343250 E561269

Range: 04W

Origin: Natural/Native occurrence

Site: 1985-04-16

Precision: NON-SPECIFIC

Section: 15 Qtr SE

Presence: Presumed Extant

Symbol Type: POINT

Meridian: M

Trend: Unknown

Radius: 1/5 mile

Elevation: 180 ft

Main Source: FOREMAN, S. 1985 (OBS)

Quad Summary: MANOR SLOUGH (3912223/547A)

County Summary: COLUSA

SNA Summary:

Location: BETWEEN STANDARD ROAD AND LURLINE CREEK, NW OF WILLOWS.

——Comments——

Distribution:

Ecological: NEST TREE IS A LONE VALLEY OAK LOCATED IN THE MIDDLE OF A HAYFIELD.

Threat:

General: 2 ADULTS OBSERVED NESTING IN 1985.

Owner/Manager: UNKNOWN

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**BUTEO SWAINSONI (NESTING)**

**SWAINSON'S HAWK**

Element Code: ABNKC19070

| —List Status—     | —NDDB Element Ranks— | —Other Lists— |
|-------------------|----------------------|---------------|
| Federal: None     | Global: G4           | CDFG Status:  |
| State: Threatened | State: S2            |               |

—Habitat Associations—

General: BREEDS IN STANDS WITH FEW TREES IN JUNIPER-SAGE FLATS, RIPARIAN AREAS AND IN OAK SAVANNAH.

Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

|  |                  |                     |                                  |                    |
|--|------------------|---------------------|----------------------------------|--------------------|
| Occurrence No. 644   | Map Index: 24713 | —Dates Last Seen—   | Lat/Long: 39°36'35" / 122°15'24" | Township: 20N      |
| Occ Rank: Fair   |                  | Element: 1993-08-XX | UTM: Zone-10 N4384486 E563816    | Range: 04W         |
| Origin: Natural/Native occurrence  |                  | Site: 1993-08-XX    | Precision: NON-SPECIFIC          | Section: 12 Qtr NE |
| Presence: Presumed Extant  |                  |                     | Symbol Type: POINT               | Meridian: M        |
| Trend: Unknown   |                  |                     | Radius: 1/5 mile                 | Elevation: 180 ft  |
| Main Source: CULL, R. 1993 (OBS)   |                  |                     |                                  |                    |
| Quad Summary: STONE VALLEY (3912253/579D)  |                  |                     |                                  |                    |
| County Summary: GLENN  |                  |                     |                                  |                    |
| SNA Summary:   |                  |                     |                                  |                    |
| Location: WHITE CABIN CREEK, JUST SOUTH OF ROAD 35 AND 0.3 MILE WEST OF ROAD "D," 4 MILES WEST OF ARTOIS.                              |                  |                     |                                  |                    |
| —Comments—   |                  |                     |                                  |                    |
| Distribution:  |                  |                     |                                  |                    |
| Ecological: NEST TREE IS A COTTONWOOD WITHIN A RIPARIAN CORRIDOR; SURROUNDING FORAGING HABITAT CONSISTS OF SUGAR BEET AND RICE FIELDS. |                  |                     |                                  |                    |
| Threat: POSSIBLE THREATS INCLUDE AGRICULTURAL ACTIVITIES.  |                  |                     |                                  |                    |
| General: 2 ADULTS OBSERVED NESTING ON 9 MAY 1993; 2 YOUNG WERE FLEDGED IN AUGUST 1993.   |                  |                     |                                  |                    |
| Owner/Manager: PVT   |                  |                     |                                  |                    |

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AQUILA CHRYSAETOS (NESTING AND WINTERING)  
GOLDEN EAGLE  
Element Code: ABNKC22010

| -----List Status----- | -----NDDB Element Ranks----- | -----Other Lists----- |
|-----------------------|------------------------------|-----------------------|
| Federal: None         | Global: G4                   | CDFG Status: SC       |
| State: None           | State: S3                    |                       |

-----Habitat Associations-----  
General: ROLLING FOOTHILL OR COAST-RANGE TERRAIN, WHERE OPEN GRASSLAND TURNS TO SCATTERED OAKS, SYCAMORES, OR LARGE DIGGER PINES.  
Micro: CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.

|   |                 |                           |                                  |                    |
|---|-----------------|---------------------------|----------------------------------|--------------------|
| Occurrence No. 31   | Map Index:09156 | -----Dates Last Seen----- | Lat/Long: 39°07'40" / 122°21'30" | Township: 15N      |
| Occ Rank: Unknown   |                 | Element: 1986-04-24       | UTM: Zone-10 N4330943 E555464    | Range: 05W         |
| Origin: Natural/Native occurrence   |                 | Site: 1986-04-24          | Precision: NON-SPECIFIC          | Section: 24 Qtr SE |
| Presence: Presumed Extant   |                 |                           | Symbol Type: POINT               | Meridian: M        |
| Trend: Unknown  |                 |                           | Radius: 1/5 mile                 | Elevation: 600 ft  |
| Main Source: FOREMAN, S. 1986 (OBS)   |                 |                           |                                  |                    |
| Quad Summary: MANOR SLOUGH (3912223/547A)   |                 |                           |                                  |                    |
| County Summary: COLUSA  |                 |                           |                                  |                    |
| SNA Summary:  |                 |                           |                                  |                    |
| Location: N OF OLD WILBUR RD, APPROXIMATELY 1.5 MI SW OF JCT OF OLD WILBUR AND LEESVILLE ROADS. |                 |                           |                                  |                    |
| -----Comments-----  |                 |                           |                                  |                    |
| Distribution: NEST LOCATED IN A FOOTHILL PINE; ONE ADULT AND TWO JUVENILES OBSERVED.            |                 |                           |                                  |                    |
| Ecological:   |                 |                           |                                  |                    |
| Threat:   |                 |                           |                                  |                    |
| General: NEST SITE FIRST OBSERVED IN 1985 - INACTIVE AT THAT TIME.                              |                 |                           |                                  |                    |
| Owner/Manager: UNKNOWN  |                 |                           |                                  |                    |

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**FALCO MEXICANUS (NESTING)**

**PRAIRIE FALCON**

Element Code: ABNKD06090

| —List Status— | —NDDB Element Ranks— | —Other Lists—   |
|---------------|----------------------|-----------------|
| Federal: None | Global: G5           | CDFG Status: SC |
| State: None   | State: S3            |                 |

**Habitat Associations**

General: INHABITS DRY, OPEN TERRAIN, EITHER LEVEL OR HILLY.

Micro: BREEDING SITES LOCATED ON CLIFFS. FORAGES FAR AFIELD, EVEN TO MARSHLANDS AND OCEAN SHORES.

**\* SENSITIVE \***

|  |                 |                     |                                  |                    |
|--|-----------------|---------------------|----------------------------------|--------------------|
| Occurrence No. 196   | Map Index:08665 | —Dates Last Seen—   | Lat/Long: 39°52'07" / 122°34'48" | Township: 23N      |
| Occ Rank: Unknown  |                 | Element: 1981-05-27 | UTM: Zone-10 N4413048 E535920    | Range: 06W         |
| Origin: Natural/Native occurrence  |                 | Site: 1981-05-27    | Precision: NON-SPECIFIC          | Section: 07 Qtr N  |
| Presence: Presumed Extant  |                 |                     | Symbol Type: POINT               | Meridian: M        |
| Trend: Unknown   |                 |                     | Radius: 1 mile                   | Elevation: 1440 ft |
| Main Source: CDFG RAPTOR NEST FILES 1981 (PERS)  |                 |                     |                                  |                    |
| Quad Summary: NEWVILLE (3912275/596D)*, PASKENTA (3912285/596A)  |                 |                     |                                  |                    |
| County Summary: TEHAMA   |                 |                     |                                  |                    |
| SNA Summary:   |                 |                     |                                  |                    |
| Location: WILLIAMS BUTTE.  |                 |                     |                                  |                    |
| —Comments—   |                 |                     |                                  |                    |
| Distribution:  |                 |                     |                                  |                    |
| Ecological:  |                 |                     |                                  |                    |
| Threat:  |                 |                     |                                  |                    |
| General: TAKEN FROM FILES AT NONGAME WILDLIFE INVESTIGATIONS, CDFG (CA-TE-08-PR). OBSERVATION BY COMRACK AND RAMSEY; INACTIVE. ACTIVE IN 1979; OBSERVATION BY SIPEREK. |                 |                     |                                  |                    |
| Owner/Manager: UNKNOWN   |                 |                     |                                  |                    |

**\* SENSITIVE \***

|  |                 |                     |                                  |                    |
|--|-----------------|---------------------|----------------------------------|--------------------|
| Occurrence No. 392   | Map Index:08499 | —Dates Last Seen—   | Lat/Long: 39°49'07" / 122°37'33" | Township: 23N      |
| Occ Rank: Unknown  |                 | Element: 1981-05-27 | UTM: Zone-10 N4407482 E532024    | Range: 07W         |
| Origin: Natural/Native occurrence  |                 | Site: 1981-05-27    | Precision: NON-SPECIFIC          | Section: 27 Qtr XX |
| Presence: Presumed Extant  |                 |                     | Symbol Type: POINT               | Meridian: M        |
| Trend: Unknown   |                 |                     | Radius: 1 mile                   | Elevation: 1400 ft |
| Main Source: CDFG RAPTOR NEST FILES 1981 (PERS)  |                 |                     |                                  |                    |
| Quad Summary: HALL RIDGE (3912276/596C)*, NEWVILLE (3912275/596D)  |                 |                     |                                  |                    |
| County Summary: TEHAMA   |                 |                     |                                  |                    |
| SNA Summary: Central Salt Creek  |                 |                     |                                  |                    |
| Location: SALT CR SADDLE.  |                 |                     |                                  |                    |
| —Comments—   |                 |                     |                                  |                    |
| Distribution:  |                 |                     |                                  |                    |
| Ecological:  |                 |                     |                                  |                    |
| Threat:  |                 |                     |                                  |                    |
| General: TAKEN FROM FILES AT NONGAME WILDLIFE INVESTIGATIONS, CDFG (CA-TE-07-PR). OBSERVED BY COMRACK AND RAMSEY; INACTIVE. ACTIVE NEST IN 1979, WHEN OBSERVED BY SIPEREK. |                 |                     |                                  |                    |
| Owner/Manager: UNKNOWN   |                 |                     |                                  |                    |

**\* SENSITIVE \***

|   |                 |                     |                                  |                    |
|---|-----------------|---------------------|----------------------------------|--------------------|
| Occurrence No. 429  | Map Index:08599 | —Dates Last Seen—   | Lat/Long: 39°49'17" / 122°35'49" | Township: 23N      |
| Occ Rank: Unknown   |                 | Element: 1981-05-27 | UTM: Zone-10 N4407801 E534494    | Range: 07W         |
| Origin: Natural/Native occurrence   |                 | Site: 1981-05-27    | Precision: NON-SPECIFIC          | Section: 25 Qtr N  |
| Presence: Presumed Extant   |                 |                     | Symbol Type: POINT               | Meridian: M        |
| Trend: Unknown  |                 |                     | Radius: 1 mile                   | Elevation: 1359 ft |
| Main Source: CDFG RAPTOR NEST FILES 1981 (PERS)   |                 |                     |                                  |                    |
| Quad Summary: NEWVILLE (3912275/596D)   |                 |                     |                                  |                    |
| County Summary: TEHAMA  |                 |                     |                                  |                    |
| SNA Summary:  |                 |                     |                                  |                    |
| Location: 3 MI UP DEXTER CYN ON SW FACING CLIFF, 40 FT UP 50 FT CLIFF.  |                 |                     |                                  |                    |
| —Comments—  |                 |                     |                                  |                    |
| Distribution:   |                 |                     |                                  |                    |
| Ecological:   |                 |                     |                                  |                    |
| Threat:   |                 |                     |                                  |                    |
| General: TAKEN FROM FILES AT NONGAME WILDLIFE INVESTIGATIONS, CDFG (CA-MN-37-PR). OBSERVED BY DONOHUE-HARGIS; ACTIVE NEST IN A POTHOLE. |                 |                     |                                  |                    |
| Owner/Manager: UNKNOWN  |                 |                     |                                  |                    |

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ATHENE CUNICULARIA (BURROW SITES)

BURROWING OWL

Element Code: ABNSB10010

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: Species of Concern Global: G4T2 CDFG Status: SC  
State: None State: S2

-----Habitat Associations-----

General: FOUND IN OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.  
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 159 Map Index:23683 ---Dates Last Seen--- Lat/Long: 39°14'03" / 122°16'22" Township: 16N  
Occ Rank: Good Element: 1993-XX-XX UTM: Zone-10 N4342804 E562759 Range: 04W  
Origin: Natural/Native occurrence Site: 1993-XX-XX Precision: SPECIFIC Section: 14 Qtr S  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 130 ft  
Main Source: FLANNERY, A. 1992 (OBS)  
Quad Summary: MANOR SLOUGH (3912223/547A)  
County Summary: COLUSA  
SNA Summary:  
Location: 0.5 MILE SOUTH OF THE INTERSECTION OF MILLS ORCHARDS ROAD AND STANDARD ROAD, APPROXIMATELY 12 MILES NW OF WILLIAMS.

-----Comments-----  
Distribution: A TOTAL OF 22 NATURAL BURROW SITES, ALL CONTAINING SIGN, FOUND AT THIS SITE IN 1992. THESE WERE REPLACED BY ARTIFICIAL BURROWS AS MITIGATION FOR IMPACTS TO THIS SITE.  
Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF RUDERAL GRASSLAND (SHEEP PASTURE).  
Threat: POSSIBLE THREAT FROM NEARBY ELECTRICAL TRANSMISSION LINES.  
General: OWLS FIRST OBSERVED IN FEBRUARY 1992. 5 PAIRS WITH 21 YOUNG OBSERVED, APR-SEP 1992. ARTIFICIAL BURROWS WERE INSTALLED TO MITIGATE IMPACTS TO NATURAL BURROWS IN 1992. 21 OWLS (7 AD, 14 JUV) Banded IN 1993; OWLS NESTED IN ARTIFICIAL BURROWS.  
Owner/Manager: UNKNOWN

Occurrence No. 160 Map Index:23684 ---Dates Last Seen--- Lat/Long: 39°13'21" / 122°16'22" Township: 16N  
Occ Rank: Unknown Element: 1992-03-08 UTM: Zone-10 N4341511 E562769 Range: 04W  
Origin: Natural/Native occurrence Site: 1992-03-08 Precision: SPECIFIC Section: 23 Qtr S  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 155 ft  
Main Source: FLANNERY, A. 1992 (OBS)  
Quad Summary: MANOR SLOUGH (3912223/547A)  
County Summary: COLUSA  
SNA Summary:  
Location: 0.25 MILE SOUTH OF DANLEY LATERAL ROAD AND 1 MILE WEST OF GLENN-COLUSA CANAL, APPROXIMATELY 11 MILES NW OF WILLIAMS.

-----Comments-----  
Distribution: BURROW IS LOCATED IN A SWALE.  
Ecological:  
Threat:  
General: ONE OWL FLUSHED ON 2 FEB 1992, AND ANOTHER FLUSHED FROM THE SAME AREA ON 8 MAR 1992.  
Owner/Manager: UNKNOWN

Occurrence No. 161 Map Index:23685 ---Dates Last Seen--- Lat/Long: 39°13'03" / 122°15'26" Township: 16N  
Occ Rank: Unknown Element: 1992-02-11 UTM: Zone-10 N4340958 E564123 Range: 04W  
Origin: Natural/Native occurrence Site: 1992-02-11 Precision: SPECIFIC Section: 25 Qtr NW  
Presence: Possibly Extirpated Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 80 meters Elevation: 120 ft  
Main Source: FLANNERY, A. 1992 (OBS)  
Quad Summary: MANOR SLOUGH (3912223/547A)  
County Summary: COLUSA  
SNA Summary:  
Location: 0.6 MILE SOUTH OF DANLEY LATERAL ROAD AND 0.25 MILE WEST OF GLENN-COLUSA CANAL, APPROXIMATELY 10 MILES NW OF WILLIAMS.

-----Comments-----  
Distribution:  
Ecological:  
Threat: THREATENED BY NATURAL GAS PIPELINE CONSTRUCTION.  
General: ONE OWL WAS FLUSHED AT THE BURROW ON 11 FEB 1992. SITE WAS MONITORED ON 7 MAR 1992; NO OWLS OR SIGN WERE FOUND, SO BURROW SITE WAS EXCAVATED ON 8 MAR 1992 FOR CONSTRUCTION OF PIPELINE (WITH AGENCY PERMISSION).  
Owner/Manager: UNKNOWN



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ATHENE CUNICULARIA (BURROW SITES) (cont.)  
BURROWING OWL  
Element Code: ABNSB10010

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: Species of Concern    Global: G4T2    CDFG Status: SC  
State: None    State: S2

Occurrence No. 162    Map Index:23681    ---Dates Last Seen---    Lat/Long: 39°21'45" / 122°15'35"    Township: 17N  
Occ Rank: Unknown    Element: 1992-03-05    UTM: Zone-10 N4357072 E563778    Range: 04W  
Origin: Natural/Native occurrence    Site: 1992-03-05    Precision: SPECIFIC    Section: 01 Qtr NW  
Presence: Presumed Extant    Symbol Type: POINT    Meridian: M  
Trend: Unknown    Radius: 80 meters    Elevation: 140 ft  
Main Source: FLANNERY, A. 1992 (OBS)  
Quad Summary: SITES (3912233/563D)  
County Summary: COLUSA  
SNA Summary:  
Location: 0.3 MILE WEST OF GLENN-COLUSA CANAL, 5.5 MILES NORTH OF MILLS ORCHARDS, EAST OF ANTELOPE VALLEY.  
-----Comments-----  
Distribution: BURROW COMPLEX MADE UP OF 10 HOLES.  
Ecological: HABITAT SURROUNDING BURROW COMPLEX CONSISTS OF AGRICULTURAL FIELDS.  
Threat:  
General: ONE DROPPING OBSERVED AND ONE OWL FLUSHED.  
Owner/Manager: UNKNOWN

Occurrence No. 163    Map Index:23682    ---Dates Last Seen---    Lat/Long: 39°20'13" / 122°15'39"    Township: 17N  
Occ Rank: Unknown    Element: 1992-XX-XX    UTM: Zone-10 N4354214 E563697    Range: 04W  
Origin: Natural/Native occurrence    Site: 1992-03-05    Precision: SPECIFIC    Section: 12 Qtr SW  
Presence: Presumed Extant    Symbol Type: POINT    Meridian: M  
Trend: Unknown    Radius: 80 meters    Elevation: 160 ft  
Main Source: FLANNERY, A. 1992 (OBS)  
Quad Summary: SITES (3912233/563D)  
County Summary: COLUSA  
SNA Summary:  
Location: 3 MILES EAST OF "GOLDEN GATE" ON FUNKS CREEK, EAST OF ANTELOPE VALLEY.  
-----Comments-----  
Distribution: BURROW LOCATED NEAR THE TOP OF A SMALL HILL.  
Ecological:  
Threat:  
General: NOW OWL OBSERVED, BUT 3 CASTINGS AND SOME DROPPINGS WERE FOUND; SIGN APPEARED RECENT, BUT NOT FRESH.  
Owner/Manager: UNKNOWN

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*DENDROICA PETECHIA BREWSTERI (NESTING)*

YELLOW WARBLER

Element Code: ABPBX03018

-----List Status-----

Federal: None

State: None

-----NDDB Element Ranks-----

Global: G5T2

State: S2

-----Other Lists-----

CDFG Status: SC

-----Habitat Associations-----

General: RIPARIAN PLANT ASSOCIATIONS. PREFERS WILLOWS, COTTONWOODS, ASPENS, SYCAMORES, & ALDERS FOR NESTING AND FORAGING.  
Micro: ALSO NESTS IN MONTANE SHRUBBERY IN OPEN CONIFER FORESTS.

Occurrence No. 65      Map Index: 08700

Occ Rank: Unknown

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: WOESSNER, A. 1986

Quad Summary: LOWREY (4012215/612D)

County Summary: TEHAMA

SNA Summary:

Location: CONFLUENCE OF SUNFLOWER GULCH AND RED BANK CREEK.

-----Comments-----

Distribution:

Ecological: 1 ADULT OBSERVED IN RIPARIAN AND GRASSLAND AREA.

Threat: INTENSE CATTLE GRAZING IN RIPARIAN CORRIDOR.

General:

Owner/Manager: PVT

-----Dates Last Seen-----

Element: 1986-05-07

Site: 1986-05-07

Lat/Long: 40°04'21" / 122°34'47"

UTM: Zone-10 N4435678 E535837

Precision: NON-SPECIFIC

Symbol Type: POINT

Radius: 1/5 mile

Township: 26N

Range: 06W

Section: 30 Qtr SE

Meridian: M

Elevation: 920 ft

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AGELAIUS TRICOLOR (NESTING COLONY)  
TRICOLORED BLACKBIRD  
Element Code: ABPBXB0020

-----List Status-----NDDB Element Ranks-----Other Lists-----  
Federal: Species of Concern Global: G3 CDFG Status: SC  
State: None State: S3

-----Habitat Associations-----

General: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN THE CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Occurrence No. 148 Map Index:09450 ---Dates Last Seen--- Lat/Long: 39°29'41" / 122°14'23" Township: 18N  
Occ Rank: Unknown Element: 1934-06-04 UTM: Zone-10 N4371745 E565375 Range: 03W  
Origin: Natural/Native occurrence Site: 1934-06-04 Precision: NON-SPECIFIC Section: 13 Qtr XX  
Presence: Possibly Extirpated Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 1 mile Elevation: 140 ft  
Main Source: HOSEA, R. 1986 (OBS)  
Quad Summary: LOGANDALE (3912242/562B)\*, LOGAN RIDGE (3912243/563A), WILLOWS (3912252/578C), STONE VALLEY (3912253/579D)  
County Summary: GLENN  
SNA Summary:  
Location: MARSH 3 MI SW OF WILLOWS.  
-----Comments-----  
Distribution: COLONY OF APPROX 15,000 OBS BY NEFF IN CATTAILS.  
Ecological:  
Threat:  
General: PRESUMED EXTIRPATED ACC TO BEEDY 1991.  
Owner/Manager: PVT

Occurrence No. 245 Map Index:24047 ---Dates Last Seen--- Lat/Long: 39°18'36" / 122°29'09" Township: 17N  
Occ Rank: Unknown Element: 1993-04-25 UTM: Zone-10 N4351108 E544333 Range: 06W  
Origin: Natural/Native occurrence Site: 1993-04-25 Precision: NON-SPECIFIC Section: 24 Qtr SW  
Presence: Presumed Extant Symbol Type: POINT Meridian: M  
Trend: Unknown Radius: 2/5 mile Elevation: 1200 ft  
Main Source: BUTTRUM, H. 1993 (OBS)  
Quad Summary: LODOGA (3912234/563C)  
County Summary: COLUSA  
SNA Summary:  
Location: SOUTH END OF EAST PARK RESERVOIR, JUST NORTH OF LODOGA.  
-----Comments-----  
Distribution:  
Ecological: NESTING SUBSTRATE CONSISTS OF CATTAILS; SURROUNDING HABITAT IS GRASSLAND AND OAK WOODLAND.  
Threat:  
General: 200-300 ADULTS OBSERVED NESTING IN 1993.  
Owner/Manager: BOR